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Thursday, August 4, 2016

WEATHER, p. 4

THU: 87°F | 63°F Sunny

FRI: 87°F | 67°F Sunny

SAT: 87°F | 66°F Cloudy

Student killed, three others injured by off-duty cop in NY

Barnhart: 'We are a tightknit community, and we will continue to care for each other in this difficult time'

By Katherine Nazemi
EDITOR IN CHIEF

Andrew "Drew" Esquivel '17 was killed and three others were seriously injured in the early morning of Saturday, July 16 in Brooklyn, NY, after an off-duty police officer, allegedly driving drunk, swerved off the road and struck the group on the sidewalk.

Three other pedestrians were in critical condition after the crash, including a current MIT student, an alumnus, and a woman affiliated with NYU. Sophia Tabchouri '18, age 20; James Balchunas '14, age 24; and Divya Menezes, age 23, were hospitalized and on Monday morning were listed as in stable condition.

Nicholas Batka, 28, the driver of the vehicle, was arrested at the scene and charged with manslaughter, driving while intoxicated, and seven other counts. He was arraigned in court Saturday, and released after posting a $300,000 bond. Batka was due to start a shift at 7 a.m. that morning. He was suspended without pay from the force, and his driver's license has been suspended.

In an email to the MIT community Monday afternoon, Chancellor Cynthia Barnhart PhD '88 wrote, "I am inspired by our community's outpouring of sympathy and heartfelt offers to help Drew's family as well as Sophia, James and their families. We are a tightknit community, and we will continue to care for and turn to each other during this difficult period."

The community notice had been delayed until the Esquivel family could be reached, she said.

Esquivel was a rising senior in Course 6-3. From Healdsburg, California, he was in New York for the summer interning at the mobile marketing firm, Appboy. Esquivel was a co-captain of the wrestling team, and a brother of Lambda Chi Alpha.

Friends described Esquivel as "an extraordinary thinker." "He knew how to get things done, and he also knew how to laugh about it," Harry Rein '16 told The Boston Globe. "I just saw him rounding into a really, very successful human being."

From noon to 2 p.m. today, MIT Chaplains will be available in W15 for prayer, support, and quiet reflection, Barnhart's email said.

Drew Esquivel '17 as shown in his Facebook profile photo.

Committee to discuss the future of MIT OCW

Members are charged with reviewing and refreshing OCW's original goals, including "reaching a billion minds" by the year 2021

By Katherine Nazemi
EDITOR IN CHIEF

Sanjay Sarma and Karen Willcox will co-chair a committee to plan for the future of MIT OpenCourseWare, President L. Rafael Reif announced in a letter to faculty July 20.

Sarma, a professor of mechanical engineering and Vice President for Open Learning, leads the Office of Digital Learning; he and Willcox, a professor of aeronautics and astronautics, were co-chairs of the Task Force on the Future of MIT Education, which released its final report and recommendations in 2014.

The 12-member committee is charged with reviewing and "refreshing" OCW's original goals, as well as identifying paths for the future of OCW. In doing so, they will survey other open education providers and technologies, as well as gather feedback from within MIT. Reif asked that the committee "begin work immediately and present [him] with a final report in the fall semester."

Since launching in 2001, OCW has published course materials for more than 2,300 MIT subjects and attracted over 200 million global visitors, Reif wrote. In 2011, MIT announced the goal of "reach[ing] a billion minds" with open educational resources by 2021.

Several recommendations presented by the Task Force in 2014 involved updating OCW. In particular, the Task Force described how OCW could facilitate "the explora-

OCW, Page 2

Covino, former Baker AD, to be Associate Head of Senior House

Plans for mental health resources still under discussion, Let's Chat-style model will likely be implemented in SH

By Karleigh Moore
EDITOR

Kristen Covino, former area director of Baker House, will be the Associate Head of House for Senior House starting August 1.

Covino's appointment in Senior House was unanimously endorsed by a committee that included Senior House student leadership, MIT administrators, and members of the Senior House house team.

Covino has experience working with LGBTQ groups and other underrepresented communities, Chancellor Cynthia Barnhart PhD '88 said in an email to the Senior House community last Friday.

Senior House President Sarah Melvin '18 says that though many residents do not support the addition of an Associate Head of House, she is "optimistic that Kristen will work with students to help bridge the divide between [the Senior House] community and the administration."

Covino will be the only new addition to the live-in Senior House house team this fall.

Joe Zimakas, the current Senior House area director, will take on a new role as an S^3 Staff Associate this fall, Barnhart's email said. Zimakas will provide personal and academic support to residents and will hold drop-in office hours. There will not be an area director for Senior House this year.

Arrangements with MIT Mental Health and Counseling to provide mental health resources in the dorm are still underway. Barnhart says that they hope to implement a Let's Chat model where students can drop in and speak confidentially with a mental health professional. According to the MIT Mental Health and Counseling website, the Let's Chat model is intended to provide "brief consultation and referral to resources" and says that it not a setting for formal counseling, does not provide mental health evaluations, and is not a crisis-intervention service.

Efforts are being made to provide opportunities for Senior House residents to engage with the arts, which is a "key value for community," states a document outlining the turnaround team's subcommittees and goals.

MIT will work to bring in visiting resident artists to Senior House to lead workshops, classes, dinners, discussions, and studio visits. The turnaround team is working with the Center for Art Science and Technology and the MIT Visiting Artist Pro-

Covino, Page 3

IN SHORT

The last day to petition for September Advanced Standing Exams is Friday, August 12.

The last day to go off the September degree list is Friday, August 12.

The last day to waive MIT Student Extended Insurance Plan for the 2016-2017 academic year is Thursday, September 15.

Send news and tips to *news@tech.mit.edu*.

Dept. of Civil and Environmental Engineering to offer three new minors starting fall semester

Students who choose to minor in CEE required to participate in traveling research

By Divya Gopinath
STAFF REPORTER

The Department of Civil and Environmental Engineering (CEE), or Course 1, is modifying its undergraduate curricula by offering three new minors starting this fall: Civil Engineering, Environmental Engineering Science, and a brand-new area called Civil and Environmental Systems.

Course 1 offers a singular 1-ENG bachelor's degree to undergraduates, which consists of a general CEE curriculum and a "core" area of study which students choose; the options are Mechanics & Materials, Environment, and Systems. The new minors are intended to parallel these major tracks of study (Civil Engineering, Environmental Engineering Science, and Civil and Environmental Systems respectively).

The Civil Engineering minor syllabus covers solid and fluid mechanics, materials, and labs, according to the department website. The Environmental Engineering Science minor focuses on ecology, microbiology, and water resources; in addition, students who opt to enroll in this minor program are required to participate in the Traveling Research Environmental Experiences (TREX) program. TREX is a nine-credit field research course offered during IAP and the spring semester where stu-

Course I, Page 2

FORBIDDEN RESEARCH

Edward Snowden appears at Media Lab conference. **NEWS, p. 2**

SHAKESPEARE IN SPACE

The stuff that dreams are made on. **ARTS, p. 5**

WHO YOU GONNA CALL?

Ghostbusters! **ARTS, p. 5**

CYCLIST CLINCHES CHAMPIONSHIP

Former PhD student Birch wins national title. **SPORTS, p. 11**

AN ICY DISASTER

New movie is on a collision course. **ARTS, p. 5**

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Edward Snowden discusses plans to develop safer phone during conference

The former NSA contractor appeared via video connection at the Forbidden Research conference hosted by the MIT Media Lab

By John Markoff
THE NEW YORK TIMES

CAMBRIDGE, Mass. — The former National Security Agency contractor Edward Snowden said Thursday that he planned to help develop a modified version of Apple's iPhone for journalists who are concerned that they may be the target of government surveillance.

The announcement was made during a one-day conference on "Forbidden Research" at the Massachusetts Institute of Technology's Media Lab.

Snowden, who spoke via a video connection from Russia, where he is living in exile, said he was working with Andrew Huang, a computer hacker known as Bunnie who studied electrical engineering at MIT, to see if it would be possible to modify a smartphone to alert journalists working in dangerous environments to electronic surveillance.

Snowden, who is a board member of a nonprofit group called the Freedom of the Press Foundation, said he was concerned that cellphones and smartphones serve as tracking devices that automatically create electronic dossiers that give third parties, including governments, detailed information on location.

As an example of the dangers of location data, he cited the mortar attack in 2012 by the Syrian government that killed Marie Colvin, an American journalist who was reporting in Homs, Syria, for The Sunday Times of London.

"The radio frequency emissions of her communications that she used to file those news reports were intercepted by the Syrian army," Snowden said.

He said it was increasingly difficult for users to trust their smartphones. They may be tampered with by malware programs, causing them to transmit location information even when the user may think that the device has been placed into a safe "airplane mode."

Huang said the project was still experimental, but he hoped it would provide journalists with modified phones that would come in a special case with a separate display that would provide an alert when the phone was active and transmitting data at improper times.

The conference focused on issues raised by computer hacking, as well as controversial scientific research in areas such as genetic engineering and geoengineering.

Also at the conference, Reid Hoffman, one of the founders of LinkedIn, which recently agreed to be acquired by Microsoft for $26 billion, announced that he planned to offer a $250,000 "Disobedience Prize" aimed at promoting positive social change and opposing injustice.

"It will go to a person or group engaged in what we believe is excellent disobedience for the benefit of society. The disobedience that we would like to call out is the kind that seeks to change society in a positive way, and is consistent with a set of key principles," wrote Joichi Ito, director of the MIT Media Lab, in a web posting about the prize. The timing of the award has not yet been determined.

In separate panels, biologists and climate scientists explored the risks and rewards of scientific research that might have unexpected consequences.

Kevin Esvelt, a biologist who is director of the Sculpting Evolution research group at the MIT Media Lab, spoke about new, easily accessible genetic engineering technologies that might be used to preserve species that are at risk of extinction, and alternatively to eradicate pests that threaten human populations by spreading disease.

He described a discussion scientists had on Wednesday with residents of Martha's Vineyard about the use of advanced genetic engineering techniques to introduce a type of mouse that had been modified to be unable to carry Lyme disease. The idea would be to break the transmission of the disease to ticks and then to humans.

He said that before beginning the experiment, the scientists engaged the community to discuss potential risks.

Scientists on several panels acknowledged that it was impossible to be certain about unforeseen effects from new engineering techniques.

"What we're worried about is something that we do that could be very attractive in the short term but have some triggering mechanism or some slow events that occur far in the future," said George Church, a Harvard geneticist who is exploring genetic engineering techniques to revive extinct species.

OCW to explore modularity in its future offerings

Report: OCW materials will allow students to design their own MOOCS using elements from many different courses

OCW, from Page 1

tion of modularity" in learning materials.

"OCW materials may, in the medium term, become the building blocks for anyone in the world who wishes to build a customized MOOC," the report suggested.

"The unbundling of classes... reflects a larger trend in society — a number of other media offerings have become available in modules, whether it is a song from an album, an article in a newspaper, or a chapter from a textbook," the report said. "Much like a playlist on iTunes, a student could pick and choose the elements of a calculus or a biology course offered across the edX platform to meet his or her needs."

The report suggested that MITx and OCW "work together to frame and enable such a vision."

MIT experimented with blended learning in 2014 with summer@future, a program that offered students for-credit experimental summer classes. These experimental classes combined classroom teaching with extensive online components and included a quantum information science class that had exclusively online problem sets and a biology class in which students created their own digital learning tools. Student and professor reviews of these classes were mixed, and the program was not repeated the following summer.

Willcox and another committee member, math professor Haynes Miller, are the faculty directors of another online educational experiment, Crosslinks. Crosslinks uses material from OCW to provide MIT-specific study material for individual topics from MIT classes.

EECS professor Hal Abelson, a member of the new committee, was also on the council which originally proposed the idea for OCW fifteen years ago.

New minors will parallel tracks in the CEE major

Any student who completes the requirements can earn a minor

Course I, from Page 1

dents spend time abroad to gain hands-on experience. "Participating in innovative fieldwork is a requirement for the Environmental Engineering Science minor," CEE Academic Administrator Kiley Clapper told The Tech. "Last year, students went to Hawaii's Big Island to examine air quality and soil contaminants."

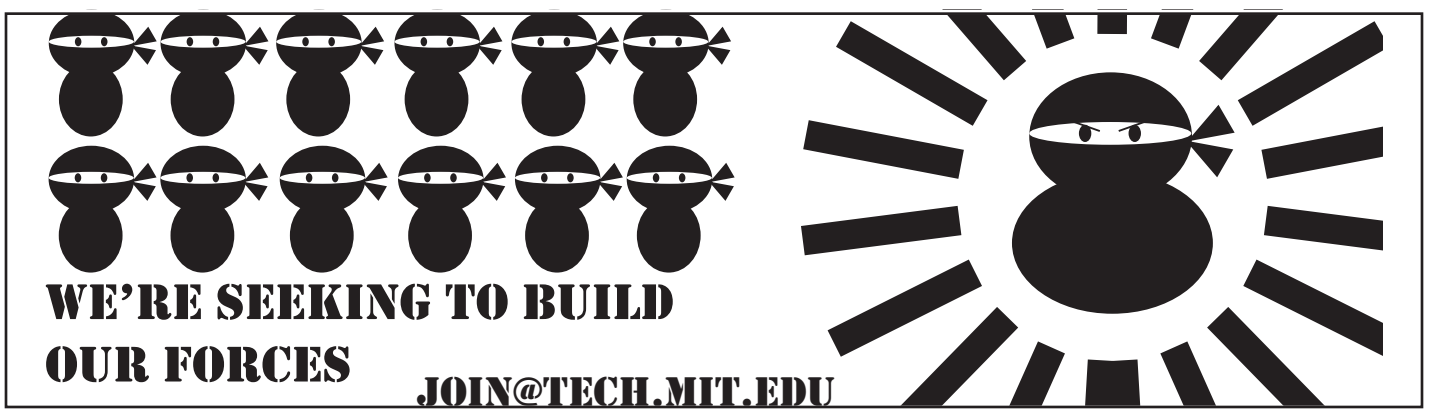
The Civil and Environmental Systems minor, on the other hand, combines principles from civil, environmental, and systems engineering to focus on systems and networks. Clapper anticipates this will be the most appealing minor of the three because of its novelty, as it combines the two disciplines within CEE.

"It took us approximately nine months to finalize and approve the three new minors," Clapper added. CEE Department Head Professor Markus Buehler and outgoing Associate Department Head Professor Elfatih Eltahir S.M. '93, Sc.D. '93 spearheaded the change along with the CEE Academic Programs Office.

"Most educational programs at MIT emphasize fundamentals," Eltahir wrote in an e-mail to The Tech. "The new minors... complement traditional MIT education. Students interested in the environment can build strong background in how natural environment works. Future engineers are expected to anticipate and avoid engineering solutions that may have negative impacts. Similarly, students interested in engineering systems approaches can build background on how to analyze, design, and manage complex... systems."

Any student (independent of class year) who has completed the requisite courses can graduate with a CEE minor.

CEE Student Association President Tiffany Wang '16 hopes that the students will take advantage of the new minors and introduce themselves to Course 1. "It's really great that the minors have been changed to match the curriculum update we had when the 1-ENG program came into effect," she said. "I think this is an amazing opportunity for people in other departments to add some Course 1 background into their majors."



Visiting artist program to promote arts culture of Senior House, some rooms will be art studios

Several upperclassmen will transfer into Senior House, but freshmen will still be banned

Covino, from Page 1

gram to identify potential visiting resident artists. Additionally, there are plans to create two art studios in the dorm.

"Artistic expression has always been important to haus residents," Melvin said adding that these art programs and spaces "will help encourage [that] part of [the Senior House] culture."

Office spaces for new resources and residential space for the new Associate Head of House will be added to the first floor of the building. Space in the dorm for the visiting artist's apartment will also be arranged. Additionally, bicycle maintenance stations and study spaces will be added to the dorm. Construction is expected to be finished by registration day. Construction on updates to the fitness room and the Flamingo Lounge have already been completed.

The chancellor says that several current students have transferred into Senior House and they "expect to approve more [transfer requests] as they come in."

Some of the goals of the subcommittees of the turnaround team include "[understanding] the most positive aspects of the Senior House culture and find ways to enhance these to build a stronger community," creating "in-house peer resources, mentorship programs with faculty and alumni, alcohol and drug education," and "[measuring] effective self-governance in Senior House."

These subcommittees will include students, GRTs, faculty, the Associate Head of House, and other staff. Each subcommittee will be co-chaired by a Senior House undergraduate and an MIT staff member. The subcommittees will be overseen by the Steering Committee, headed by the Chancellor. The Steering Committee will include Head of House Jay Scheib, Associate Head of House Kristen Covino, Senior House Co-Presidents Sarah Melvin and James Handy '18, a Senior House GRT, and the co-chairs of each turnaround subcommittee.

Melvin says that while the process has not been "optimal for students," there has been "progress in the past few weeks and some of [the students'] concerns have been addressed."

Senior House residents and alumni have been working together to start an alumni mentorship program, Melvin told The Tech. She thinks this program will be especially beneficial to residents "whose interests fall outside typical MIT paths."

Despite that freshman will not be housed in Senior House this fall, the dorm will host events during REX such as an "Open Haus" that will allow freshmen to tour the dorm, meet residents, and hear music played by student musicians living in Senior House.

"We still want freshmen to be a part of our community, even if they are not allowed to call it home just yet," Melvin said.

DID YOUR MIT ESSAYS GET YOU IN?

The Tech is collecting successful application essays (**hint: yours!**).

Email your pieces to *cl@the-tech.mit.edu*!

Solution to Sudoku I

from page 8

5	4	3	1	9	6	8	7	2
6	8	2	4	7	5	9	3	1
9	7	1	8	3	2	6	4	5
3	5	4	6	2	8	1	9	7
2	9	8	5	1	7	4	6	3
1	6	7	9	4	3	2	5	8
4	3	6	7	8	1	5	2	9
8	2	9	3	5	4	7	1	6
7	1	5	2	6	9	3	8	4

Solution to Sudoku II

from page 8

1	9	6	4	3	2	7	8	5
3	7	8	1	5	9	4	2	6
5	4	2	6	8	7	3	9	1
2	1	7	5	6	8	9	3	4
6	3	4	2	9	1	8	5	7
9	8	5	3	7	4	6	1	2
7	6	3	8	2	5	1	4	9
8	5	1	9	4	6	2	7	3
4	2	9	7	1	3	5	6	8

Solution to Techdoku I

from page 8

4	2	6	1	3	5
2	6	4	5	1	3
6	4	2	3	5	1
3	1	5	6	2	4
1	5	3	4	6	2
5	3	1	2	4	6

Solution to Techdoku II

from page 8

3	2	4	5	6	1
1	6	2	3	4	5
4	3	5	6	1	2
5	4	6	1	2	3
2	1	3	4	5	6
6	5	1	2	3	4

Solution to Jumbo

from page 8

2	4	5	7	8	6	1	9	3
9	2	3	5	6	4	8	7	1
4	6	7	9	1	8	3	2	5
5	7	8	1	2	9	4	3	6
7	9	1	3	4	2	6	5	8
6	8	9	2	3	1	5	4	7
8	1	2	4	5	3	7	6	9
1	3	4	6	7	5	9	8	2
3	5	6	8	9	7	2	1	4

Solution to Saturday

from page 8

■	B	L	A	N	C	S	■	R	A	D	I	A	L	S
A	R	A	B	I	A	N	■	U	T	E	N	S	I	L
M	O	N	S	T	R	O	■	B	A	T	C	A	V	E
I	N	D	■	R	O	W	■	■	L	E	A	P	E	D
E	C	O	N	O	M	Y	C	L	A	S	S	■	■	■
■	■	L	O	G	S	■	A	I	N	T	■	P	U	G
T	R	A	D	E	■	P	S	S	T	■	S	O	S	O
Y	U	K	O	N	P	O	S	T	A	L	C	O	D	E
C	H	E	Z	■	A	S	I	S	■	A	U	R	A	S
O	R	S	■	G	R	I	N	■	G	I	B	E	■	■
■	■	■	V	E	R	T	I	C	A	L	A	X	I	S
E	A	S	I	L	Y	■	■	A	L	A	■	C	S	T
T	R	E	L	L	I	S	■	S	P	A	T	U	L	A
A	I	R	L	A	N	E	■	T	A	L	K	S	A	T
L	A	F	A	R	G	E	■	E	L	I	T	E	S	■

Solution to In the Lead

from page 9

S	A	L	A	D	■	C	O	W	S	■	I	C	O	N
E	L	I	T	E	■	E	C	H	O	■	N	A	M	E
M	A	N	I	A	■	N	E	A	R	■	S	P	E	W
I	N	T	E	R	S	T	A	T	E	■	P	E	N	S
■	■	■	O	P	E	N	■	■	M	E	S	S	Y	■
S	E	M	I	N	A	R	■	N	A	R	C	■	■	■
P	L	A	N	E	■	■	T	O	Y	S	T	O	R	E
A	S	I	S	■	I	N	A	W	E	■	I	M	A	Y
M	E	N	T	O	R	E	D	■	■	V	O	I	C	E
■	■	■	R	U	S	T	■	P	R	I	N	T	E	D
S	T	R	U	T	■	■	A	L	E	S	■	■	■	■
T	R	I	M	■	I	N	D	I	V	I	D	U	A	L
R	A	T	E	■	C	A	F	E	■	T	A	S	T	E
E	D	E	N	■	E	V	E	R	■	O	R	N	O	T
W	E	S	T	■	D	Y	E	S	■	R	E	A	P	S

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Then write movie reviews for *The Tech*.
(Advance screening opportunities also available!)
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How to prevent street harassment

The ukulele curse

By Elaine Lin
STAFF WRITER

How many ukuleles did you have? Two? Why didn't you limit yourself to just one?

If you replace "ukulele" with "drink," you get the usual slew of questions women are asked after sexual assault. Unfortunately, as hard as I try, I cannot control how strange men act towards me.

Last Friday, I walked across the Harvard Bridge with my two ukuleles. A passing cyclist slowed down, grinned, and asked for one of my instruments. I generally decline strangers who want my stuff, so I politely smiled, shook my head, and kept walking.

We happened to be travelling in the same direction, so he started talking to me again. This time, I did not respond and kept walking. Had our interactions ended here, I'd consider him an oddball, try to forget my past experiences with street harassment, and play uke with my friends in peace. If you have never been approached on the streets, you might consider this a compliment and wonder why strangers like me spurn "innocent" questions.

Innocence depends on intent. Talking to strangers is pleasant when the conversation is brief with crystal clear, benign intent. Rarely do you find someone who ignores a quick transfer of information such as, "Excuse me. Where is the bathroom?" On the other hand, communication between friends takes more time and emotional investment. You should not expect these accommodations from strangers. Whether they bark or grimace at you is irrelevant if they point you towards the correct location.

I'd like to think the dude just wanted a free ukulele (who wouldn't want a free ukulele?), but it was clear he wanted my affection. As I walked away, he called me a "stuck-up bitch" and shouted for a while. I moved too far away to hear the exact words, but I'm sure they weren't very nice.

The cacophony rang in my ears as I continued along the bridge. To him, I was another rude woman. He was drunk and probably forgot me shortly. To me, the dread of being followed, being blocked, being touched by this strange man ruined my evening. Too livid for more social interaction, I shut myself off from my dear friends and played a ukulele alone.

For the record, I did make the risque decision of walking alone around predusk while wearing a mid-thigh floral skirt. Perhaps I should latch onto my buff climbing bros at all times. Perhaps I should bundle up from head to toe in the balmy Boston summers. Perhaps I shouldn't carry around two ukuleles.

The cacophony rang in my ears as I continued along the bridge. To him, I was another rude woman. To me, the dread of being followed, being blocked, being touched by this strange man ruined my evening.

WEATHER

Warm weekend waiting

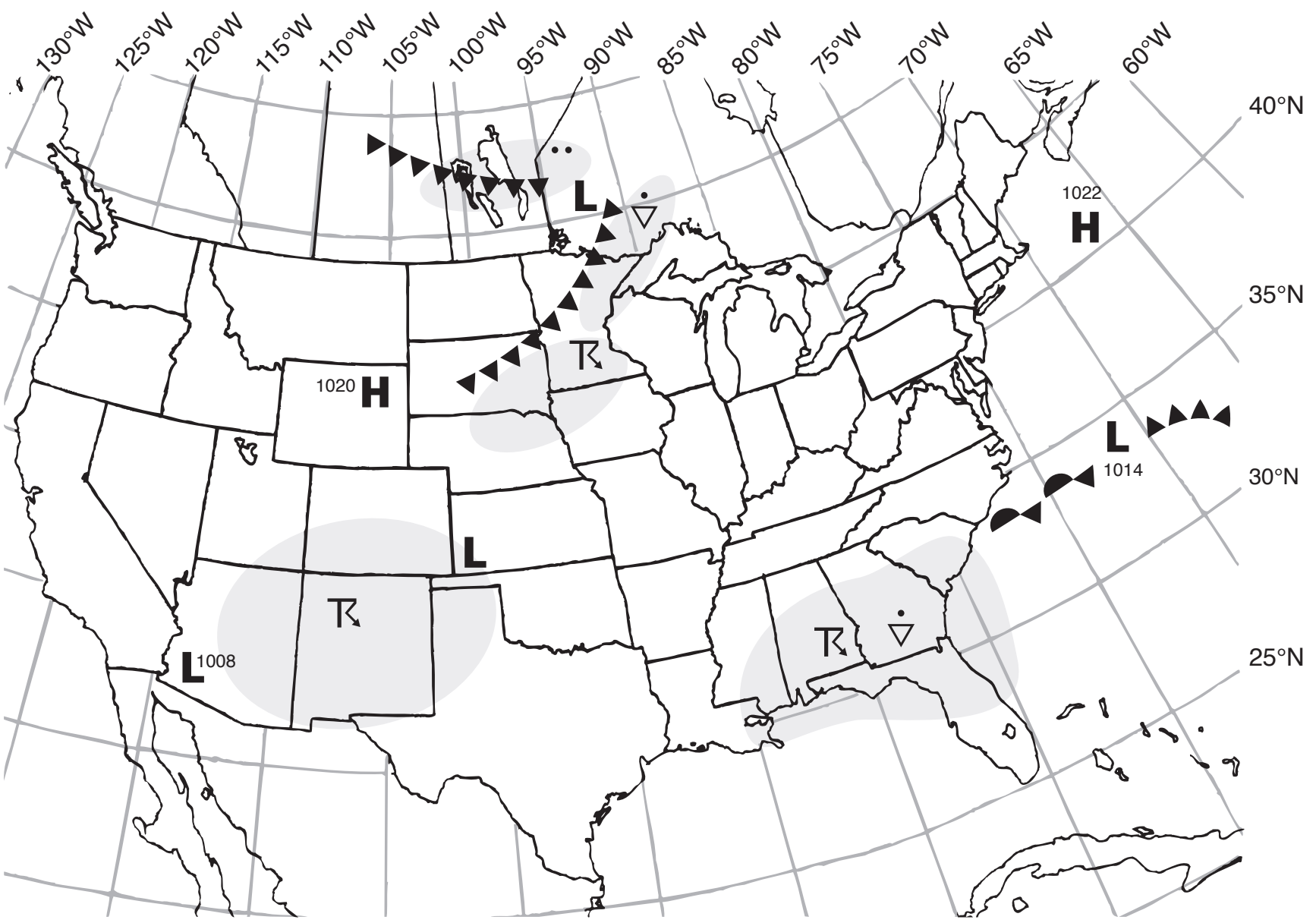
By Colin Thackray
STAFF METEOROLOGIST

After enjoying some tame temperatures this week after a long stretch of oppressive heat and humidity, nicely not-too-warm weather will wind down the waning week. Highs in the mid 80s (°F) and lows in the mid 60s (°F) will be the forecast for every day, with a little chance of thunder showers this weekend. Basically, boring Boston summer sun.

In severe weather news, tropical storm Earl is, at the time of writing, making a run at Central America, with the National Hurricane Center expecting Earl to have a brief stint as a hurricane when it makes landfall in Belize. Honduras, Guatemala, and Mexico will all be affected by the storm, which could bring 16 inches of rain in places. That will cause the danger of extreme flooding and mudslides, along with wind-caused downing of trees and property damage. Earl has already been reported as the cause of two deaths in the Dominican Republic.

Extended Forecast

Today: Sunny. Winds SW 5-10 mph. High 87°F (31°C).
Tonight: Clear. Winds S 5-10 mph. Low 63°F (17°C).
Tomorrow: Clear. Winds S 10-15 mph. High 87°F (31°C).
Saturday: Cloudy. Winds SW 10-15 mph. High 87°F (31°C).
Sunday: Sunny. Winds NW 5-10 mph. High 85°F (29°C).



Situation for Noon Eastern Time, Thursday, August 4, 2016

Weather Systems	
H	High Pressure
L	Low Pressure
§	Hurricane

Weather Fronts	
	Trough
	Warm Front
	Cold Front
	Stationary Front

Precipitation Symbols	Snow	Rain
Showers	* ▽	• ▽
Light	*	•
Moderate	**	••
Heavy	***	•••

Other Symbols	
≡	Fog
⚡	Thunderstorm
∞	Haze

Compiled by MIT Meteorology Staff and *The Tech*

MOVIE REVIEW

Ice Age Collision Course is a disaster

It's full of tired gender stereotypes and bathroom humor

★☆☆☆☆

Ice Age: Collision Course

Directed by Michael Thurmeier

Starring Ray Romano, John Leguizamo, Denis Leary

Rated PG

Now Playing

COURTESY OF DISNEY PIXAR

"Ice Age: Collision Course" — Sid (voiced by John Leguizamo) meets an ethereal female sloth, Brooke (voiced by Jessie J) who somehow finds him irresistible.

By Elaine Lin
STAFF WRITER

If you've watched enough children's movies, you know that the good guys triumph over unbeatable odds. In *Ice Age: Collision Course*, a colossal, fiery asteroid threatens to annihilate the planet. Spoiler alert: it doesn't. Imagine if it did: Peaches and Julian never get married, and their corpses burn together in their last embrace. No, that's ridiculous.

The asteroid is so destructive that you are absolutely certain that it will go away. The movie has a PG rating for "mild rude humor and some action/peril," but you will feel no peril if you are out of elementary school. There are murderous dinosaurs and exploding asteroids, but nothing out of the ordinary. The movie flickers between prehistoric and futuristic scenes — it aims to excite, but only happens to confuse.

The abrupt transitions in space (pun intended) break up the primary storyline. It's difficult to tell, but the plot resolution is cute and clever. The gang checks out the predicted crash site to see if anything is attracting the asteroid. The flaming ball of terror is literally attracted to a magnetic space rock on Earth, so they propel the giant magnet away from the ground.

Developing relationships between core characters and resolving this conflict would make a fine movie. Introducing oodles of new characters makes a tangled mess. It turns out that the magnet is not a space rock, but a colony for forever-young animals. How did they survive the crash to Earth? How do the crystals act as a fountain of youth? As far as I can tell, the purpose of this whole subplot is to introduce Sid (voiced by John Leguizamo) to his girlfriend (voiced by Jessie J) who instantly falls in love with him for no reason.

Earlier on, the plot establishes that Sid is unattractive and clingy. He leaves algae in his eyes, and he makes detailed marriage proposals to a girl after the first date. Yet, by the mysterious laws of children's movies, he scores a woman. You remember the female characters by attaching them a male and branding them with adjectives. Sid's girlfriend is beautiful and quirky, and Sid's grandmother is shrill and naggy.

The female mammoths are a bit better. Manny's wife seems sensible. However, the movie first establishes her identity as a wife when she fusses at Manny for forgetting their anniversary. Manny's daughter seems innovative and resourceful, but her main goal is to become Julian's bride. The climax excludes her and shows her father and her boyfriend saving the day, and the movie ends with her wedding.

The only thing connecting the unredeeming characters and the complicated plot line is rude, slapstick humor. If you share a sense of humor with an immature child, you would get a kick out of the ample nut and nipple jokes. Personally, I found them disgusting. Understandably, I am not the target movie audience. I do not expect movies, especially children's movies, to cater to young liberals by featuring strong, brave women, but movies need to abandon superficial ones.

MOVIE REVIEW

Star Trek Beyond falls short of warp speed

Director Justin Lin boldly explores uncharted territory, but doesn't venture far enough

★★★☆☆

Star Trek Beyond

Directed by Justin Lin

Starring Chris Pine, Zachary Quinto, Idris Elba, Sofia Boutella, Karl Urban

Rated PG-13

Now Playing

By Karleigh Moore and Ray Wang
EDITORS

The United Federation of Planets is one of the most memorable elements of the *Star Trek* science fiction franchise — a utopia of alien coexistence, peace, and economic prosperity, it is meant to be a fictional example of what an advanced universe would look like. The Federation and its interstellar navy, Starfleet, are also at the center of the latest film in the franchise, *Star Trek Beyond*.

Yet, *Star Trek Beyond*, like its 2013 predecessor *Star Trek Into Darkness*, attempts to overturn this utopian vision of the Milky Way. In an era of peace, there are some that prefer war — like the villain of *Beyond*, Krall.

The beloved Enterprise encounters the baddie on an unknown planet in the heart of an unexplored nebula, and it's clear Krall is no friend to the Federation. Accustomed to war, and spurred by other sometimes-vague motivations, he's hell-bent on tearing apart the peace that the Federation has enjoyed — much like the antagonist from *Into Darkness*.

The Enterprise's Captain Kirk is also battling inner turmoil at the opening of the film. Approaching another weary birthday on his five-year exploratory mission for Starfleet, he's gradually losing a sense of purpose in the vastness of space and the length of his journey.

But in attempting to portray the Federation and Starfleet as anything less than a galactic utopia, *Star Trek Beyond* falls short. Director Justin Lin is clearly comfortable with breaking out of Trekkies' comfort zones (he destroys the Enterprise in the first act!), but he doesn't do enough to convince us that the Federation is actually vulnerable, or that Kirk's sentiments are more than fleeting. We wish he had developed those ideas more — it would have brought the film fully beyond the constraints of the venerable, but jaded franchise up to now.

There were many questions introduced throughout the movie that weren't answered. The scary weapon that Krall intends to use to cripple Starfleet is somehow all-powerful but not explained. We are led to believe that once in the unexplored nebula, communications with Star Fleet will be impossible, yet Krall somehow manages to intercept Starfleet communications including Kirk's full captain's log. Some of these factors seem a little too convenient.

However, the development of many of the Enterprise crew members is undeniably fantastic.

Hikaru Sulu (John Cho), the Asian helmsman of the Enterprise, has a fleeting scene with his husband and daughter, a refreshing nod to the openly gay actor who played Sulu in the original series, George Takei.

The relationship between the pointy-eared First Officer Spock (Zachary Quinto) and Communications Officer Uhura (Zoe Saldana) has also developed beautifully, fraught with tension but infused with warmth, a complexity that is fitting of such unique characters. Spock, who faces difficult personal choices, struggles to balance his responsibilities and feelings — something he's never had trouble with before — showing the human side of his half-Vulcan, half-Earth upbringing.

However, some of the character's interactions were unconvincing echos of elements from the original *Star Trek*. One of the best parts of the original series was the never-ending banter between DeForest Kelley's Doctor McCoy and Leonard Nimoy's Spock. In *Beyond*, this banter felt forced and wasn't as funny as it was intended to be.

The film included several tributes to the crew from the original *Star Trek* series, especially the late Leonard Nimoy who cameoed in the previous two films of the reboot.

Beyond manages to introduce a new character that we actually cared about. Jaylah (Sofia Boutella) is a total badass. She manages to survive on the unknown planet alone (after her family was murdered by Krall) and fixes up a crashed ship so that it is functional save the ability to actually fly. She devises a number of traps and security measures and is pretty fierce in hand-to-hand combat, saving the skins of Starfleet officers on more than one occasion. We hope she makes an appearance in the inevitable future installations of the franchise.

COURTESY OF PARAMOUNT PICTURES

Left to right: Zachary Quinto plays Spock, Sofia Boutella plays Jaylah and Karl Urban plays Bones in Star Trek Beyond.

ARTS ARTS ARTS

FESTIVAL REVIEW

Artbeat brings Cambridge together

Celebration of art, culture, music, and the summer

By Vidhi Goel

VIDHI GOEL

Festival goers write prophecies to hang up as part of an art project.

On the hot summer day of July 15, Davis Square transformed into a retreat for the city locals. Artbeat, one of the largest art festivals in the area, is held on the third week of July every year. Being an art enthusiast and fairly new to the city, I decided to check it out. I am glad I did because Cambridge has never felt so colorful, unified, and inspiring.

The festival started on Friday with music and interactive performances through the evening. The organizers, the Somerville Arts Council, shut down the entire square on Saturday, providing a large platform for the community to come together.

Flea markets have historically served as incubators and breeding grounds for entrepreneurs and small businesses. Artbeat offered even more by providing a stage (or two) to rising musicians, celebrating local food entrepreneurs, and opening doors for unique artistic talents. This year's theme 'Roots' attracted many sustainability and green-awareness organizations and community projects. A woman walking on sticks and a man dressed as Elvis Presley brought in flavors of a carnival to the event. The organizers mindfully set up a dedicated space with pools and fountains for parents and children to beat the heat in style.

Amidst all the craft, music, and food, a unique setup seemed to be catching everyone's attention. A woman wearing a white hat and a hopeful smile, and typing on a contemporary typewriter, was giving everyone pieces of paper and pens. The papers were all different colors and cut into unique shapes and sizes. She was asking everyone to write a prophecy for someone else and then pick out one that they related to the most. People wrote and some drew their thoughts down with enthusiasm and she would type a few out on her typewriter at request. Eventually, all the colorful pieces of paper, each having a unique thought, made their way onto jute ropes tied to trees to make for a beautiful installation. The effect of paper bunting immediately made the space look festive and uplifting, making people stop and notice.

Participation from attendees and the desire to share made this effort unique — everyone was immediately curious and wanted to engage. We humans remember and cherish the experiences in which we are actors, and not merely spectators. This project permitted people to reflect, empathize, express, and share in the simplest way. It let everyone think of their community and reach out to one another through the power of genuine words.

MOVIE REVIEW

Ghostbusters remake is smart and hilarious

Ghosts, science, brass rats, and Boston — what more could you want?

COURTESY OF SONY PICTURES ENTERTAINMENT INC.

The Ghostbusters Abby (Melissa McCarthy), Holtzmann (Kate McKinnon), Erin (Kristen Wiig) and Patty (Leslie Jones) inside the Mercado Hotel Lobby in Columbia Pictures' GHOSTBUSTERS.

★★★★★

Ghostbusters

Directed by Paul Feig

Starring Kristen Wiig, Melissa McCarthy, Kate McKinnon, Leslie Jones, Neil Casey, Chris Hemsworth

Rated PG-13

Now Playing

By Karleigh Moore
EDITOR

Ghostbusters is a hilarious action-filled remake of the critically acclaimed 1984 version. This one casts four women to compose a team of sharp Ghostbusting badasses. With *Ghostbusters*, MIT gains another notable fictional alum, Erin (Kristen Wiig), who sports a gold brass rat throughout the film. Chris Hemsworth plays Kevin, a dumbfoundingly incompetent secretary — an interesting departure from his role as Thor, the ultra-masculine Norse God in Marvel's *Thor*. From its casting decisions to its functional-not-sexualized costuming, the movie challenges gender stereotypes without being heavy-handed about it or making it the focus of the film.

Erin and Abby's science knowledge, Holtzmann's crack engineering skills, and Patty's encyclopedic knowledge of New York City make them the perfect squad to work out the science of the paranormal and take down ghosts that are spread out at strategic locations around the city. The group's chemistry created a lovable, though at times dysfunctional, team.

Whether it was Kevin's clueless antics or Holtzmann's quirky dancing (there is a scene where she accidentally sets the lab on fire mid-dance and somehow manages to continue, working the blaze into her impromptu routine), the film kept me awkwardly cracking up in the theater. Even the most minor characters like the takeout delivery guy (Karan Soni) who can't seem to get the wanton-to-soup ratio right in Abby's order add to the experience.

My one real qualm with the film is that the villain, Rowan (Neil Casey), seemed underdeveloped. He was angry with the world because he had been bullied his whole life. How clichéd. It would be nice if he'd had a more interesting motivation and a better plan than just simply causing chaos with the ghosts so he could rule the world.

Because of the flimsy villain, the plot is mostly what you'd expect. The Ghostbusters chase down and bust ghosts. But the richness of the characters and their interactions more than make up for the lack of ingenuity in the plot.

Though set in New York City, many of the scenes might remind you of places a bit closer to home as much of the film was shot in Boston and other Massachusetts locations. The haunted house featured at the beginning of the film is the Boston University Castle. Some scenes were shot in Boston's financial district, at the Wang Center on Tremont Street, and the Kaze Shabu Shabu restaurant in Chinatown served as the Ghostbusters headquarters. If the Ghostbusters' lab set up looks familiar to you, it might be because the filmmakers consulted with two physicists, Janet Conrad and Lindley Winslow, when making the movie. According to the MIT News Office, MIT labs and offices served as inspiration for the sets in *Ghostbusters*.

ARTS ARTS ARTS

FUNFUNFUNF

Jumbo Techdoku

Solution, page 3

18×	21+			31+				2−
			24+			8		
24×		63×				12×	10×	
21+		72×		18×			90×	
7			1−	12+	12×			56×
384×					5×		4	
		8×			29+			9
36×			21+			7−		2
	30×			63×			5+	

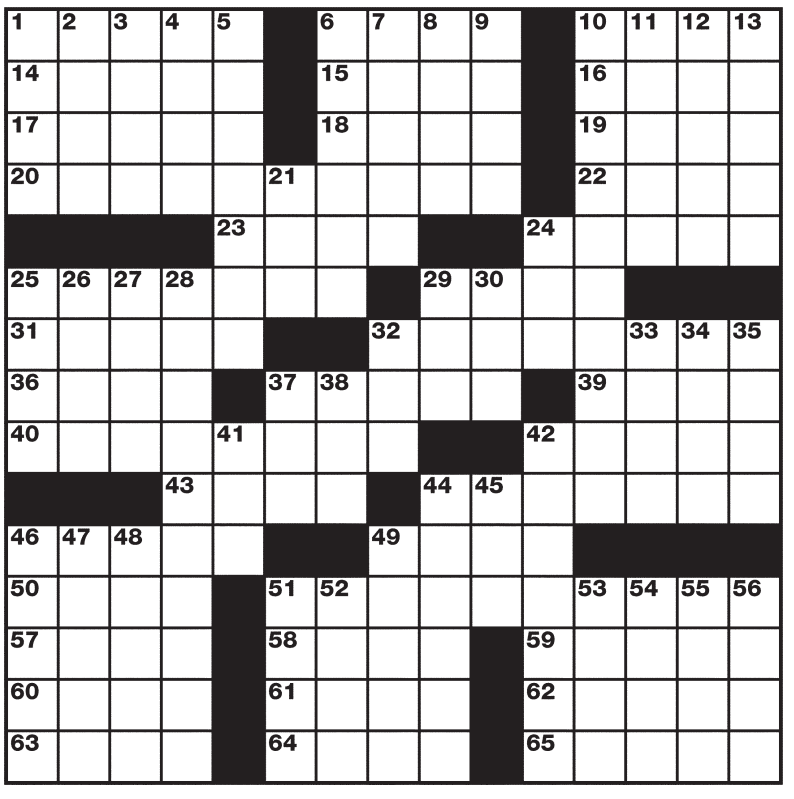
Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–9. Follow the mathematical operations for each box.

In the Lead by Gail Grabowski

Solution, page 3

ACROSS
1 "Tossed" dinner course
6 Dairy animals
10 Computer screen image
14 Privileged group
15 Empty-hallway sound
16 Identify
17 Widespread craze
18 Within walking distance
19 Eject, as a geyser
20 Cross-country highway
22 Ballpoints
23 Take the lid off
24 All disheveled
25 Training session
29 Antidrug cop
31 Airborne vehicle
32 Shop selling dolls and games
36 Having no warranty
37 Very impressed
39 "If __ be so bold . . ."
40 Guided, as a trainee
42 Speak, as an opinion
43 Corrosion of iron
44 Wrote with block letters
46 Walk with a swagger
49 Pub beverages
50 Quick haircut
51 Person
57 Make an evaluation of
58 "Sidewalk" eatery
59 Take a bite of
60 Garden in Genesis
61 At any time
62 "Ready __, here I come!"
63 Toward sunset
64 Changes the color of
65 Brings in the harvest

DOWN
1 "Half" prefix for final
2 Alda of M*A*S*H
3 Clothes-dryer buildup
4 End in __ (come out even)
5 Cherished person
6 Middle point
7 Pacific or Atlantic
8 "Huh?"
9 Feeling achy
10 Close scrutiny
11 Cloaks waved by bullfighters
12 Signs of the future
13 Full of recent info
21 Health resort
24 "Is it Miss, Ms., or __?"
25 Junk email
26 Otherwise
27 Most important
28 Violin or clarinet
29 "Immediately!"
30 Sailor's "yes"
32 Little bit
33 Leave out
34 Speed contest
35 Peered at
37 Tax agcy.
38 Tennis court barrier
41 Not at home
42 Guest stopping in
44 Gripping tool
45 Gun, as an engine
46 Scatter, as seed
47 Make a swap
48 Formal ceremonies
49 Cost for a commercial
51 Chilled, as a drink
52 54 Down group
53 Take a risk
54 Annapolis school: Abbr.
55 On the roof of
56 Allows



FUNFUNFUNF

FUNFUNFUNF

Celtics attempt to recruit Durant

Tom Brady present at meeting to convince basketball superstar to come to Boston, but attempt fails

NBA, from Page 12

the past two years that has defeated the Warriors in a playoff series. Kyrie Irving is coming off a fantastic NBA Finals where he outplayed Stephen Curry and should be an MVP candidate this season, as Lebron will likely take a backseat over the long regular season. If the Cavaliers could figure out how to unlock the potential of the chronically underachieving Kevin Love, then they should be the favorites to win the East.

Boston Celtics
Key additions: Al Horford, Gerald Green, Jaylen Brown
Key losses: Evan Turner, Jared Sullinger

The Celtics went all in with their recruitment of Kevin Durant, as Tom Brady was present at their meeting and tried to persuade the superstar to come to Boston. Despite coming up short, the Celtics still had a very successful offseason, highlighted by the addition of All-Star center Al Horford. With an abundance of depth and Brooklyn Nets' draft picks via the 2013 trade, the Celtics have the assets to trade for another star like Russell Westbrook or Blake Griffin. With the team as it is, the Celtics should challenge for the conference's best regular season record, but are still probably another piece away from ending Lebron's six-year reign as an Eastern Conference champion.

Toronto Raptors
Key additions: Jared Sullinger
Key losses: Bismack Biyombo

The biggest move the Raptors did this offseason was resigning All-Star DeMar DeRozan, as the LA native was rumored all season to be the heir apparent to Kobe Bryant. The Raptors took a step forward last season by reaching the conference finals and taking the Cavs to game six, but they will need their backcourt duo of Kyle Lowry and DeRozan to play with better consistency if they are to return to the conference finals.

Sleeper
New York Knicks
Key additions: Derrick Rose, Joakim Noah, Courtney Lee, Brandon Jennings
Key losses: Robin Lopez, Arron Afflalo

The Knicks were the busiest team in the league this offseason, trading for Derrick Rose and signing Joakim Noah, two former Bulls who are former All-NBA players but are both injury prone. Depth will remain an issue for the Knicks, who missed the playoffs last season, but with a rising star in Kristaps Porzingis and a determined Carmelo Anthony, the Knicks will be a fun team to watch. While their starting lineup would have certainly competed for the 2011 NBA Championship, the 2016-2017 Knicks should surprise people if they can remain healthy.

Lucroy traded to Rangers hours before final buzzer

Reds outfielding slugger Bruce acquired by NY Mets, Angels starter Santiago traded to Twins

MLB, from Page 12

Sox's interest in digging into the pool of Red Sox's rising stars to make a deal involving Chris Sale or a combination of starter Jose Quintana and closer David Robertson. However, despite the energetic anticipation, it turned out that the Red Sox's biggest move on deadline day was to not make any move that involved the top end of their farm system, leaving all their major-league talent, futures' game MVP Yoan Moncada, and 2015 first-round pick Andrew Benintendi untouched.

In the mean while, coveted all-star catcher Jonathan Lucroy expectedly made headlines near the trade deadline, but not quite in a manner that everybody expected. On a partial non-trade clause, Lucroy immediately vetoed a trade agreed upon between his Milwaukee Brewers and the playoff-locked Cleveland Indians. He cited a lack of playing time as his reason to decline the offer. He received a standing ovation for this incident in Miller Park, only to then successfully be traded to the Texas Rangers hours before the final buzzer. It is noteworthy that the Rangers, whose roster looks significantly more intimidating than it already was, have lost 1B/DH Prince Fielder for the remainder of the season due to neck herniations, but immediately filled the void and more with Beltran, who will join Beltre as two possible hall of famers in the middle of the Texas lineup.

Over in the National League, the Cubs, one of the most exciting teams to watch in 2016, acquired more bullpen help with the addition of right-handed reliever Joe Smith from the last-place Angels. Additionally, the Los Angeles Dodgers, currently trying to catch up with the ice-cold San Francisco Giants, acquired OF Josh Reddick and SP Rich Hill from the Oakland Athletics in exchange for three prospects. In the middle of all of this was OF Yasiel Puig, who was left behind in Los Angeles ahead of the team's road trip, in anticipation of a possible trade. To everybody's surprise, there was no trade involving the cannon-arm Yasiel Puig, so he is expected to be demoted in some manner.

> **It remains to be seen which of the deadline moves pays off the most, and which have a serious impact on the playoff and wild card race.**

Finally, on the stream of big-league trades, the long-time Reds outfielding slugger and all-star Jay Bruce was acquired by the New York Mets. Perhaps the only surprising aspect of this trade is that the New York Mets are not immediately in contention for the postseason this year, but they do expect Bruce to help with his power from the right-field spot in the lineup. In their division, the dominant Washington Nationals made a splash by landing closer Mark Melancon from the Pittsburgh Pirates in exchange for very little as they look to fill in the void caused by Jonathan Papelbon's rough season.

With all the anxious prospect-handling and all-star trading, many other moves were being made under the radar. The inconsistent Angels starter Hector Santiago exchanged bad teams by heading over to the Minnesota Twins. The Blue Jays also acquired a load of pitching help that doesn't necessarily sound impressive – by means of several deals, they were able to rid themselves of RP Jesse Chavez and SP Drew Hutchison and acquire Pirates SP Francisco Liriano and old friend RHP Scott Feldman. It is unclear whether these moves will provide any sort of upgrade but with Aaron Sanchez having a breakout season as a starter, the Jays may be onto something as they aim for a division title.

In the National League, the Giants made some noise by trading INF Matt Duffy and two high-caliber prospects for SP Matt Moore – a risky trade with an already strong rotation but since it's the Giants in an even year, we shall refrain from doubting it. Last but not the least, the San Diego Padres and Atlanta Braves provided a spark of entertainment by exchanging questionable assets in veteran OF Matt Kemp and young 3B Hector Olivera, who was immediately designated for assignment for the Padres. A perhaps senseless move, the Braves, who claimed they were looking to rebuild, provided something hilarious to round out the trade discussion around the horn.

It remains to be seen which of the deadline moves pays off the most, and which have a serious impact on the playoffs and wild card race. Let the predictions and guessing begin.

Birch prioritized cycling over her career in science

Birch credits MIT cycling club for the beginning of her cycling career

Cycling, from Page 12

science and research she enrolled as a full-time lecturer, teaching bioengineering at UC Riverside.

While balancing her academic demands with those of an elite athlete is undoubtedly challenging, Birch thrives on challenges, using them to motivate herself even more.

> **"My best friend used to get a bunch of team members to cycle in the wind tunnel at MIT"**

"I know it's cliched to say I want to be the best that I can be but I feel that comes from somewhere. That comes from a challenge of the preconceived limits you have about yourself. I started late and part of it is just challenging the prejudices I have against myself. I like a challenge because there is something satisfying about overcoming one."

So with the national title under her belt, what is next for Birch?

"I need to better a certain qualifying time in the individual pursuit race (3km) after which I would like to represent USA in international competitions. There is the PAN-American challenge, the World Cup, the World Championships, and the Olympics."

Almost a year removed from her big decision to prioritize cycling, Birch has demonstrated her determination and commitment to achieving her dreams. While no doubt bigger accomplishments lie in the horizon, Birch fondly remembers where it all started — with the MIT cycling club.

"My best friend Zach Labry used to get a bunch of team members to cycle in the wind tunnel at MIT so we could learn to race while minimizing the air-drag. Our competitors would say MIT cyclists are fast because of their ability to practice in the wind tunnel. In reality it was because we were such a close-knit group that practiced really hard."

"I owe the start of my career as a competitive racer to the MIT cycling team,"said the elite national champion.

Got Something to Say?

Largest Newspaper
Volume 131, Number 2
Dining ignites campu
Despite loud opposition, new plan s
By Maggie Lloyd
ASSOCIATE NEWS EDITOR
Few topics caused as much tension on campus in 2010 as the ever-changing House Dining Plan, scheduled to go into effect Fall 2011. In March 2010, the Division of Student Life (DSL) formed the House Dining Advisory Group (HDAG)
en days a week, including Maseeh Hall, set to open in Fall 2011. Costs for the 10, 12, or 14 meals-per-week options were projected to be $2,900, $3,400, and $3,800 per year, respectively, and the number of meals per week were required to be equally split
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labs
Ho
Former varsity sports, profiled
Money not the only problem
MIT 150
Two fraterni
PBE suspended for fo

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